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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/788,675	02/27/2004	Mahesh Chowdhary	ACCU.P0002	3593		
23349 75	590 06/27/2005		EXAM	INER		
STATTLER J	OHANSEN & ADELI		TRAN, D	ALENA		
P O BOX 51860 PALO ALTO,	- '		ART UNIT	PAPER NUMBER		
THEO HETO,	CIT 71303		3661			
			DATE MAILED: 06/27/200	DATE MAILED: 06/27/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	ation No.	Applicant(s)	
Office Action Summary		10/788	,675	CHOWDHARY, MAHESH	
		Examir	ner	Art Unit	
	_	Dalena	Tran	3661	
Period fo	The MAILING DATE of this communicator Reply	ation appears on	the cover sheet with the	correspondence ac	ldress
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICANS on time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) or period for reply is specified above, the maximum statuture to reply within the set or extended period for reply will reply received by the Office later than three months after ed patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no ication. lays, a reply within the sory period will apply and l, by statute, cause the a	event, however, may a reply be tile statutory minimum of thirty (30) day d will expire SIX (6) MONTHS from application to become ABANDONE	mely filed ys will be considered time the mailing date of this c ED (35 U.S.C. § 133).	
Status					
1)⊠	Responsive to communication(s) filed	on <u>27 February 2</u>	<u>2004</u> .		,
2a)□	This action is FINAL . 2b)⊠ This action is	s non-final.		
3)□	Since this application is in condition for closed in accordance with the practice				e merits is
Disposit	ion of Claims		•		
5)□ 6)⊠	Claim(s) <u>1-19</u> is/are pending in the app 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) <u>1-4,7-13 and 16-19</u> is/are rejected Claim(s) <u>5,6,14 and 15</u> is/are objected Claim(s) are subject to restriction	withdrawn from o			
Applicat	ion Papers				
9)[The specification is objected to by the E	Examiner.			
10)	The drawing(s) filed on is/are: a)□ accepted or	b) objected to by the	Examiner.	
	Applicant may not request that any objection		•	,	•
11)	Replacement drawing sheet(s) including th The oath or declaration is objected to b			=	• •
Priority ι	ınder 35 U.S.C. § 119				
12) <u>□</u> a)l	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the International See the attached detailed Office action from	cuments have be cuments have be the priority docur I Bureau (PCT R	een received. een received in Applicat ments have been receive ule 17.2(a)).	ion No ed in this National	Stage
Attachmen	• •		[]		
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO	-948)	4) Interview Summary Paper No(s)/Mail D		,
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO-1449 or PT r No(s)/Mail Date		5) Notice of Informal F 6) Other:		D-152)

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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION		ATTORNEY DOCKET NO.	
10/78/675					
				EXAMINER	
					
			ART UNIT	PAPER	
				20050622	

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

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DETAILED ACTION

Notice to Applicant(s)

1. This application has been examined. Claims 1-19 are pending.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 10, and 19, are rejected under 35 U.S.C. 103(a) as being unpatentable over Murphy (6,366,207) in view of Levine (6,502,035).

As per claim 1, Murphy discloses a method for detecting safe driving behavior in a vehicle, comprising the steps of generating sensor data, on vehicle, that reflects vehicle movement (see column 2, lines 4-37), processing said sensor data to extract characteristics that reflect frequent lane changes of vehicle (see column 5, lines 8-67; column 6, lines 8-16; and column 8, lines 12-53). Murphy does not disclose frequent lane changes of said vehicle at high-speeds. However, Levine discloses generating a frequent lane change event based on said processed data, said frequent lane change event indicates frequent lane changes of said vehicle at high-speeds (see the abstract; column 1, lines 32-49; columns 2-3, lines 10-26; and columns 4-5, lines 23-63). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Murphy by combining indicates frequent lane changes of said vehicle at high-speeds for warning drivers and others of both the safe and unsafe movements of other vehicles to avoid dangers to themselves and to others.

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Claims 10, and 19, are module system claims corresponding to method claim 1 above. Therefore, they are rejected for the same rationales set forth as above.

4. Claims 2-3, 7, 11-12, and 16, are rejected under 35 U.S.C. 103(a) as being unpatentable over Murphy (6,366,207), and Levine (6,502,035) as applied to claims 1, and 10 above, and further in view of Yamamura et al. (6,882,915).

As per claims 2, and 7, Murphy, and Levine do not disclose generating sensor data that detects vehicle heading changes. However, Yamamura et al. disclose generating sensor data that detects vehicle heading changes (see columns 7-8, lines 48-4; and column 35, lines 13-44). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Murphy, and Levine by combining generating sensor data that detects vehicle heading changes to determine vehicle future path, so a driving system can perform assisting the vehicle operator in avoiding any danger to avoid a risk of collision.

Also, as per claim 3, Yamamura et al. disclose generating sensor data that detects angular rate for yaw axis of said vehicle (see columns 37-38, lines 37-51).

Claims 11-12, and 16, are module system claims corresponding to method claims 2-3, and 7 above. Therefore, they are rejected for the same rationales set forth as above.

5. Claims 4, 8, 13, and 17, are rejected under 35 U.S.C. 103(a) as being unpatentable over Murphy (6,366,207), Levine (6,502,035), and Yamamura et al. (6,882,915) as applied to claims 3, and 12 above, and further in view of Lees (6,345,228).

As per claim 4, Murphy, Levine, and Yamamura et al. do not disclose points of inflexion from said angular rate data. However, Lees discloses extracting points of inflexion from said angular rate data (see column 6, lines 1-21); determining the slope

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between said points of inflexion (see column 7, lines 15-42); determining peak values at said points of inflexion (see column 5, lines 30-67; and column 7, lines 43-67); and determining time separations between said points of inflexion (see columns 6-7, lines 22-10). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Murphy, Levine, and Yamamura et al. by combining points of inflexion from said angular rate data to determine an abrupt turning of vehicle so to immediately provide a warning or correct vehicle running behavior to provide safety for vehicle and others.

As per claim 8, Yamamura et al. disclose wherein generating a frequent lane change event based on the slope of the angular rate (see column 8, lines 30-42; column 9, lines 40-55; and column 10, lines 8-23).

Claims 13, and 17, are module system claims corresponding to method claims 4, and 8 above. Therefore, they are rejected for the same rationales set forth as above.

6. Claims 9, and 18, are rejected under 35 U.S.C. 103(a) as being unpatentable over Murphy (6,366,207), and Levine (6,502,035) as applied to claims 1, and 10 above, and further in view of Fernandez (6,748,322).

As per claim 9, Murphy, and Levine do not disclose transmitting frequent lane change event from said vehicle to a server. However, Fernandez disclose transmitting frequent lane change event from said vehicle to a server (see columns 2-3, lines 23-4). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teach of Murphy, and Levine, by combining transmitting frequent lane change event from said vehicle to a server to monitor vehicle violation, and to record

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a date and time when a driver violated one or more of a predetermined conditions and to notify an authority agency.

Claim 18, is module system claim corresponding to method claim 9 above.

Therefore, it is rejected for the same rationales set forth as above.

7. Claims 5-6, and 14-15, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
 - . Mohlenkamp et al. (6,178,374)
 - . Abe et al. (6,298,290)
 - . Pierowicz et al. (6,516,273)
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalena Tran whose telephone number is 571-272-6968. The examiner can normally be reached on M-F 6:30 AM-4:00 PM), off every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on 571-272-6956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Valendon

Patent Examiner

Dalena Tran

June 22, 2005